

CLAIM OR CLAIMS

WHAT IS CLAIMED IS:

1. A method of measuring relative channel delay between a pair of
5 component signals of a video signal comprising the steps of:
 removing a local mean from the pair of component signals to produce
 a pair of filtered component signals;
 obtaining a cross-correlation between the pair of filtered component
signals;
10 finding a centroid for the cross-correlation; and
 converting the centroid to a delay time as a measure of the relative
channel delay.
2. The method as recited in claim 1 further comprising the step of converting
15 the pair of filtered component signals to absolute values prior to the obtaining
step.
3. The method as recited in claims 1 or 2 wherein the finding step comprises
the steps of:
20 locating nearest zero-crossing on each side of a peak in the cross-
correlation; and
 finding the centroid between the nearest zero-crossings.

4. The method as recited in claim 3 further comprising the step of removing a sample offset from the centroid to provide a sample delay for input to the converting step.

5 5. The method as recited in claim 4 wherein the converting step comprises the step of dividing the sample delay by a sample rate to obtain the delay time.

10 6. The method as recited in claims 1 or 2 further comprising the step of removing a sample offset from the centroid to provide a sample delay for input to the converting step.

15 7. The method as recited in claim 6 wherein the converting step comprises the step of dividing the sample delay by a sample rate to obtain the delay time.